Alkylation with isobutylene

B-1 5.0g MeOH, .1666M @ 95°C IN R100 4 hr @ 95°C 5.8M iC4 : MeOH
5.0g ϕC
.123g H_2SO_4

56.0g iC4 .9655M Analysis tBuOMe 70.4% .80M
MeOH 29.6% .99M
iC4= 10.4 − .80 9.57M
Conv MeOH 45%
iC4 7.6%

k_{95} $\frac{[MeOH][iC_4^=]}{[MeOtBu]}$ 11.84 ?? $1/k_{95}$ = .40 con ant

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?-1 3.0g H+ resin dry 2 hr 60°C IN 1:00
3-4 MIN to 90°C
4.1g tBHP = 95% .04555 M if 100% but est .042M tBHP @92% quality .0182 } .0602
5.1g iC4= .0879 M

7.5g out by draining 2.0g sample by 12.0 ml .1N thio
.3 meq/g [2.7%] tBHP

Assume start at 9.0g .243g 6.3%
3.87 93.7% Conv.

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